

Amendments to the Claims:

1. (original) A method for coating a carbon velvet material attached to a cathode to make a field emission cold cathode, comprising:

forming a solution of a low work function cesiated salt and de-ionized water;  
spraying the carbon velvet material with the cesiated salt solution to form a coated carbon velvet material;  
baking the coated carbon velvet material at a temperature of at least 100 °C for approximately an hour in a vacuum oven evacuated to less than 1 torr.; and  
venting the vacuum oven to an atmospheric pressure using dry nitrogen.

2. (original) A coating method as recited in Claim 1, wherein the spraying step includes pressurizing a spraying means with dry nitrogen.

3. (original) A coating method as recited in Claim 1, wherein the cesiated salt is selected from a group consisting of cesium tellurate and cesium bromide.

4. (previously amended) A coating method as recited in Claim 1, wherein the steps of forming, spraying, baking, and venting are repeated until a film of cesiated salt having a desired thickness is formed on the carbon velvet material.

5-7. (canceled)

8. (original) A method of making a field emission cold cathode, comprising:  
depositing a vaporized cesiated salt solution onto fibers of a carbon velvet material;  
forming cesiated salt crystals on the fibers; and  
bonding the carbon velvet material to a cathode.

9-12. (canceled)

13. (previously amended) A method of making a field emission cold cathode comprising:

attaching a carbon velvet material having fibers to a cathode;  
dipping the fibers in a molten cesiated salt solution; and  
cooling the solution.

14. (canceled)

15. (previously amended) A method of making a field emission cold cathode comprising:

attaching a carbon velvet material having fibers to a cathode;  
dipping the fibers in a molten cesiated salt solution; and  
removing the fibers from the solution.

16. (canceled)

17. (previously amended) A method as recited in Claim 15 wherein the steps of dipping and removing are repeated until a film of cesiated salt having a desired thickness is formed on a plurality of the fibers.

18. (canceled)